

I will start my "Hi-tech science lab equipment buyers guide for the professionals" with the set of basic items you need regardless of their actual purpose which could be: work, gaming, graphics design or scientific.

Monitor

32" Odyssey Neo G8 4K UHD 240Hz

<https://www.samsung.com/us/computing/monitors/gaming/32-odyssey-neo-g8-4k-uhd-240hz-1ms-curved-gaming-monitor-ls32bg852nnxgo/>

Price: 1.500\$

I use(d) many Samsung products for years, never disappointed in any of them or anything about them, and that is why I have also choosen this brand of the monitor. It has a huge screen which makes it suitable for the detailed presentations.

Desktop computer

ALIENWARE AURORA R15 GAMING DESKTOP

https://www.dell.com/en-us/shop/gaming-and-games/alienware-aurora-r15-gaming-desktop/spd/alienware-aurora-r15-desktop/wdr15aur50h?ref=p13n_system_pdp_eol&c=us&cs=04&l=en&s=bsd

Price: 4.500\$

Currently one of the strongest gaming computers available on the market will surely meet scientific standards as well. Don`t forget that gaming computers have mighty graphics processor which actually doubles the overall processing power.

Notebook

Asus ROG Zephyrus G15 GA503QS-HQ003T

<https://rog.asus.com/uk/laptops/rog-zephyrus/2021-rog-zephyrus-g15-series/spec/>

Price: 3.130\$

Same principle applies as with the desktop computer selection.

In addition, this laptops are very light which makes them economical for transportation and handling.

Next comes an universal set of the scientific equipment:

Digital microscope

LB-31DM

<https://www.labotronics.com/digital-microscope/lb-31dm>

Price: on request

Cold Storage

CryoExtra™ CE8120

<https://www.thermofisher.com/order/catalog/product/CE8120>

Price: on request

Cryogenic transport and shipping

Arctic Express™ CY50910

<https://www.thermofisher.com/order/catalog/product/CY50910>

Price: on request

Freezer

Lab Cold RLDF0519

[https://labcold.com/cat/labcold-sample-and-reagent-refrigerators/
undercounter-rldf05109/](https://labcold.com/cat/labcold-sample-and-reagent-refrigerators/undercounter-rldf05109/)

Price: 1.800\$

Lab spectrophotometer

UV5Nano

[https://www.mt.com/int/en/home/products/Laboratory_Analytics_Browse/uv-
vis-spectrometers/micro-uv-vis-spectrometers/UV5Nano.html](https://www.mt.com/int/en/home/products/Laboratory_Analytics_Browse/uv-vis-spectrometers/micro-uv-vis-spectrometers/UV5Nano.html)

Price: 14.000\$

Gas Chromatography

LB-50GC

<https://www.labotronics.com/gas-chromatography>

Price: on request

Liquid Chromatography

LB-10LC

<https://www.labotronics.com/liquid-chromatography>

Price: on request

Centrifuge

LB-93HSC

<https://www.labotronics.com/high-speed-centrifuge>

Price: on request

Precision Balances and Scales

Balance XPR504S

https://www.mt.com/int/en/home/products/Laboratory_Weighing_Solutions/precision-balances/XPR504S.html

Price: 15.000\$

What follows is a set of the specific scientific inventory:

3d printer

Delta WASP 2040 Hybrid

<https://www.robotshop.com/products/delta-wasp-2040-hybrid>

Price: 4.500\$

3d scanner

Creality CR-Scan Lizard 3D

<https://creality3dofficial.com/products/cr-scan-lizard-3d-scanner>

Price: 700\$

Robotic hand

RV-70F

<https://us.mitsubishielectric.com/fa/en/products/industrial-robots-melfa/vertical-type-robot/rv-f-series/rv-f-series/>

https://mitsubishi-electric-eshop.mee.com/mee/FA_IA/en/EUR/Catalogue/Robot/RobotSystem/RV-70FM-D1-S15/p/000000000000301792

Price: on request

Laser

LDM405 - Compact Laser Diode Module with Shutter, 405 nm, 4.0 mW

https://www.thorlabs.com/newgroupage9.cfm?objectgroup_id=1219

Price: 1.100\$

Handheld laser

HLS635 - Handheld Laser Source, 635 nm, FC/PC

[https://www.thorlabs.com/newgrouppage9.cfm?
objectgroup_id=5929&pn=HLS635](https://www.thorlabs.com/newgrouppage9.cfm?objectgroup_id=5929&pn=HLS635)

Price: 760\$

Optical enclosure

XE25C10D/M

<https://www.thorlabs.com/thorproduct.cfm?partnumber=XE25C10D/M>

Price: 400\$

Biosafety cabinet

LabGard B1 NU-427

<https://www.nuaire.com/products/biosafety-cabinets/class-ii-type-b1/labgard- nu-427-class-ii-type-b1-biosafety-cabinet>

Price: on request

(I think it is certainly under 10.000\$)

Atomic clock

Microchip Technology Incorporated 5071A-C007

<https://www.microchip.com/en-us/products/clock-and-timing/components/ atomic-clocks/atomic-system-clocks/cesium-time/5071a>

Price: on request

(I estimate up to 100.000\$)

Telescope

Meade ACF-SC 356/2848 UHTC Starlock LX850 GoTo

Meade Telescope ACF-SC 356/2848 UHTC Starlock LX850 GoTo (astroshop.eu)

No wi-fi.

Price: 15.000\$